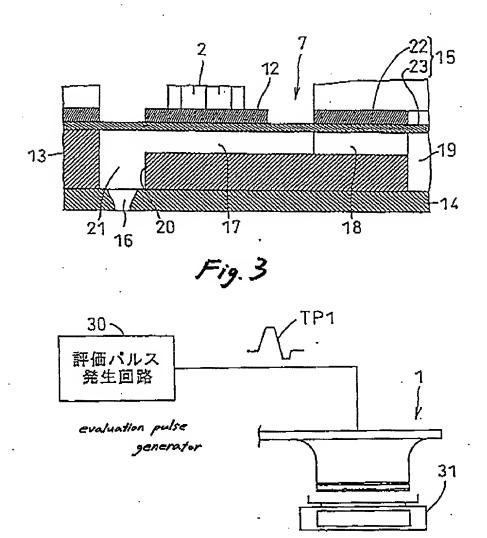
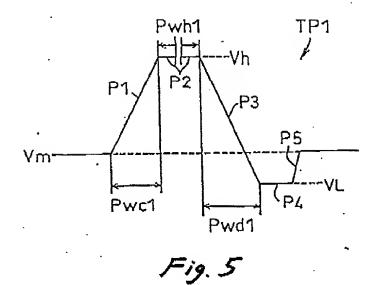


Fig. 2





pressure



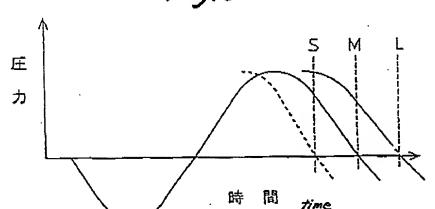
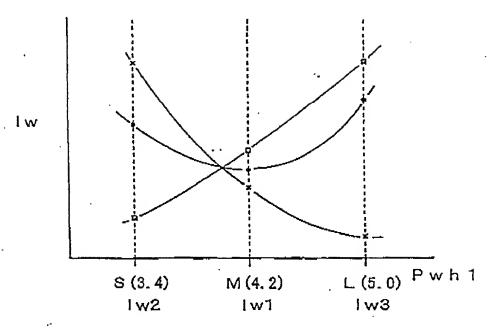


Fig. 6



			lw		
TeランクーD	0	lw2 > lw2 > lw2 =	w1 < w1 = w1 <	: lw3	
	1	1w2 <	[w] <	Iw3	Augus
	2	1w2 >	1w1 >	lw3	-
	エラー	w2 = w2 = w2 < w2 <	w1 = w1 > w1 = w1 > w1 >	- lw3	

To rank ID error

Fig. 7

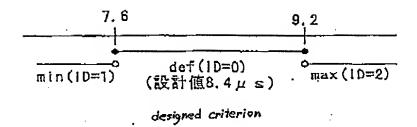


Fig. 9

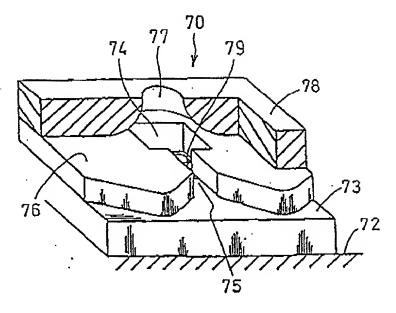


Fig. 10

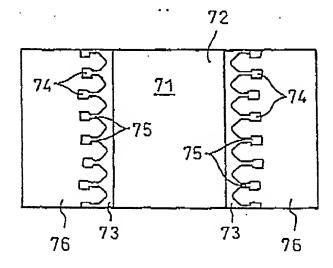


Fig. 11

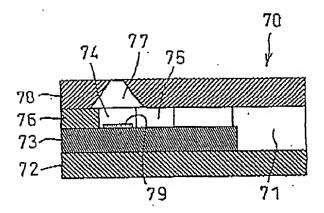


Fig. 12A

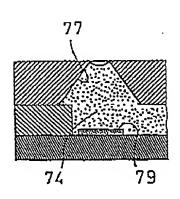
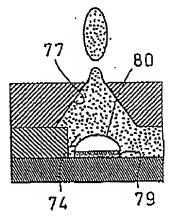
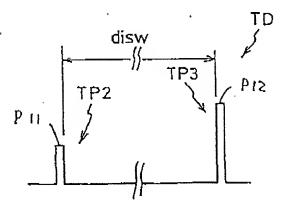
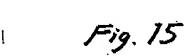


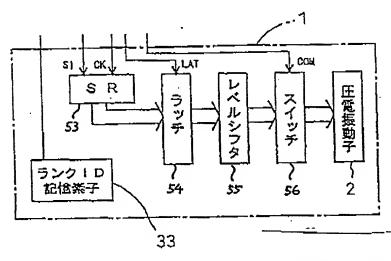
Fig. 12B



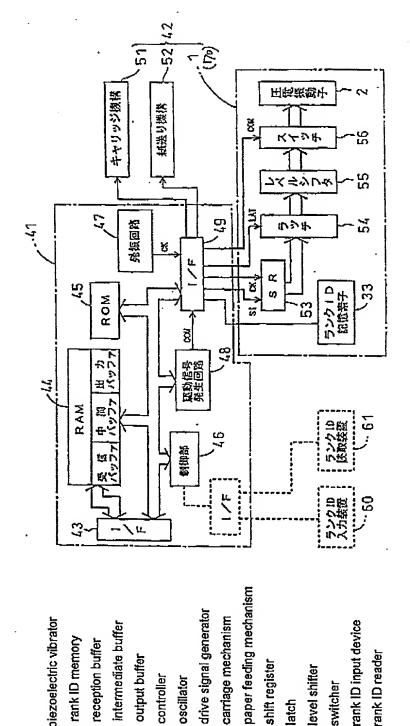




32



- 2: piezoelectric vibrator
- 33: rank memory
- 53: shift register
- 54: latch
- 55: level shifter
- 56: switcher



drive signal generator camage mechanism

48:

54:

52: 53:

shift register

latch

54:

level shifter

55: 56:

switcher

2: piezoelectric vibrator

33: rank ID memory 44: reception buffer intermediate buffer

output buffer

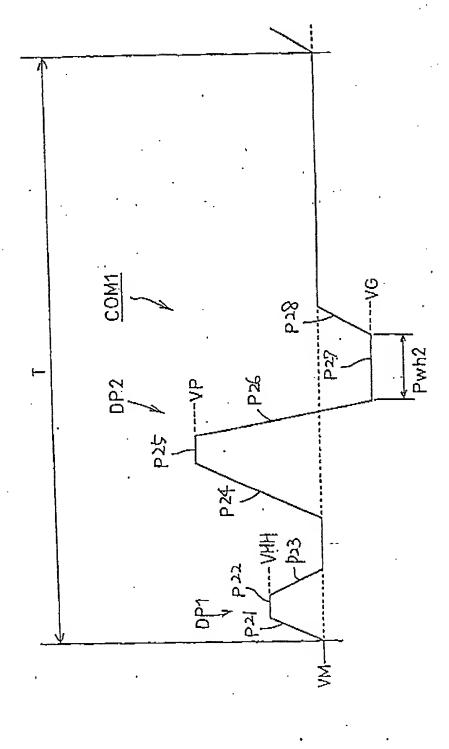
controller oscillator

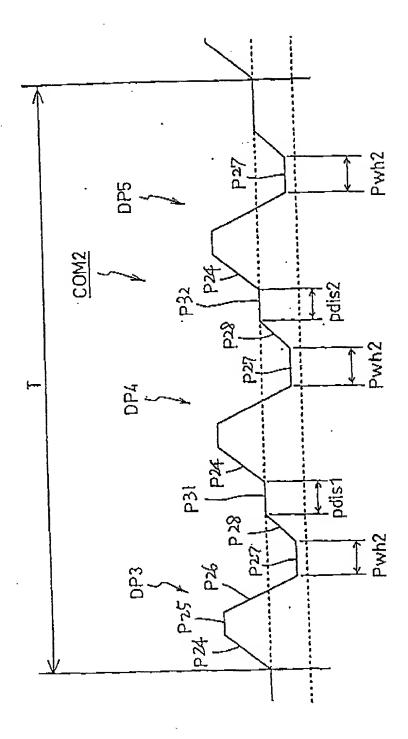
46:

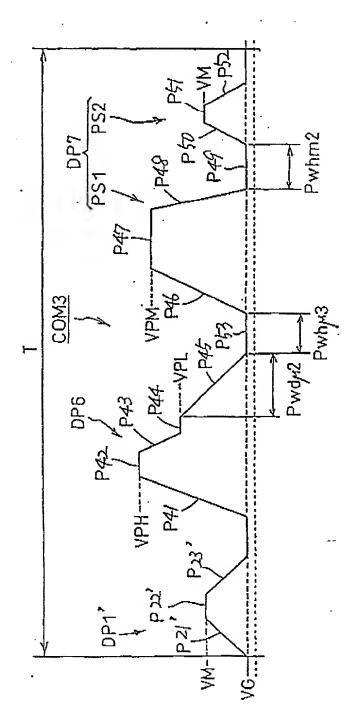
47:

rank ID input device

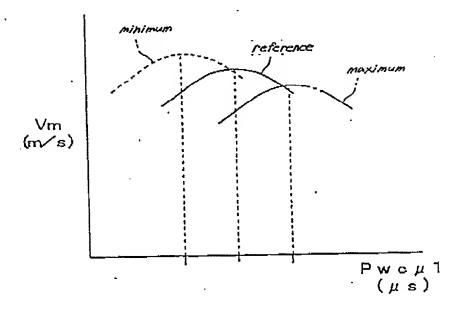
rank ID reader

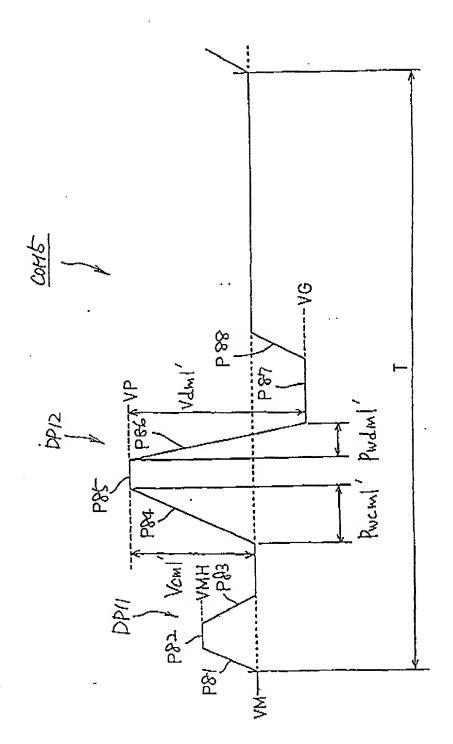












٧G

